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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
LOU MARRERO

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Serial No. **Not Yet Assigned**

Filing Date: **Herewith**

For: **AIRCRAFT MAINTENANCE APPARATUS
AND METHOD OF MAINTAINING
AIRCRAFT**

) Examiner: **R. Chin**

) Art Unit: **1744**

) Attorney Docket No.:
18716B

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Prior to the calculation of fees and examination of the present application, please enter the amendments and remarks set out below.

In the Claims:

Please cancel Claims 1-81.

Please add new Claims 82-104.

82. An aircraft maintenance tool for maintaining an aircraft, the maintenance tool comprising:

a tool housing;

a pair of cleaning brushes having at least portions thereof mounted in said tool housing; and

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driving means connected to said tool housing for rotatably
driving said pair of cleaning brushes in opposite rotational directions

83. An aircraft maintenance tool as defined in
Claim 82, wherein each of said pair of cleaning brushes
includes an inflatable roller and a roller cover, said roller
cover including a plurality of brushing members associated
therewith.

84. An aircraft maintenance tool as defined in
Claim 83, further comprising roller inflating means connected
to said tool housing for inflating each of said inflatable
rollers.

85. An aircraft maintenance tool as defined in
Claim 82, further comprising fluid supplying means connected
to said tool housing for supplying fluid to an aircraft for
cleaning thereof.

86. An aircraft maintenance tool as defined in
Claim 85, wherein said fluid supplying means includes a
plurality of fluid supply lines connected to an inner surface
of said tool housing and a fluid supply connected to said
plurality of fluid supply lines.

87. An aircraft maintenance tool as defined in
Claim 82, further comprising suctioning means connected to
said tool housing for suctioning fluid from an aircraft
adjacent the maintenance tool.

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88. An aircraft maintenance tool as defined in Claim 87, wherein said suctioning means includes a suction wiper positioned between said pair of cleaning brushes and a suction hose connected to said suction wiper.

89. An aircraft maintenance tool as defined in Claim 82, wherein said driving means includes at least one motor positioned within said tool housing and positioned between portions of said pair of cleaning brushes mounted in said tool housing.

90. An aircraft maintenance tool as defined in Claim 89, wherein said driving means further includes a drive assembly connected to said at least one motor and at least one end of each of said pair of cleaning brushes.

91. An aircraft maintenance tool as defined in Claim 90, wherein said motor includes a drive shaft, wherein each of said pair of cleaning brushes includes a cleaning brush drive gear, and wherein said drive assembly includes a first drive gear mounted to said drive shaft, a first drive belt connected to said first drive gear and one of said cleaning brush drive gears for driving the one of said pair of cleaning brushes, a second drive gear operatively engaging said first drive gear, and a second drive belt connected to said second drive gear and the other one of said cleaning brush drive gears for driving the other one of said pair of cleaning brushes in the opposite rotational direction from the one of said pair of cleaning brushes.

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92. A maintenance tool comprising:

a tool housing;

a pair of roll members having at least portions thereof mounted in said tool housing; and

driving means connected to said tool housing for rotatably driving said pair of roll members in opposite rotational directions.

93. A maintenance tool as defined in Claim 92, wherein each of said pair of roll members includes a roller and a roller cover, said roller cover including a plurality of surface contact members associated therewith.

94. A maintenance tool as defined in Claim 93, wherein each of said rollers are inflatable, wherein the plurality of surface contact members comprises brushing members, and wherein the tool further comprises roller inflating means connected to said tool housing for inflating each of said inflatable rollers.

95. A maintenance tool as defined in Claim 92, further comprising fluid supplying means connected to said tool housing for supplying fluid to an item for cleaning thereof.

96. An aircraft maintenance tool as defined in Claim 95, wherein said fluid supplying means includes a plurality of fluid supply lines connected to an inner surface

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of said tool housing and a fluid supply connected to said plurality of fluid supply lines.

97. A maintenance tool as defined in Claim 96, further comprising suctioning means connected to said tool housing for suctioning fluid from an item adjacent the maintenance tool.

98. An aircraft maintenance tool as defined in Claim 97, wherein said suctioning means includes a suction wiper positioned between said pair of roll members and a suction hose connected to said suction wiper.

99. A maintenance tool as defined in Claim 92, wherein said driving means includes at least one motor positioned within said tool housing and positioned between portions of said pair of roll members mounted in said tool housing.

100. A maintenance tool as defined in Claim 99, wherein said driving means further includes a drive assembly connected to said at least one motor and at least one end of each of said pair of roll members.

101. A maintenance tool as defined in Claim 100, wherein said motor includes a drive shaft, wherein each of said pair of roll members includes a roll member drive gear, and wherein said drive assembly includes a first drive gear mounted to said drive shaft, a first drive belt connected to

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said first drive gear and one of said roll member drive gears for driving the one of said pair of roll members, a second drive gear operatively engaging said first drive gear, and a second drive belt connected to said second drive gear and the other one of said roll member drive gears for driving the other one of said pair of roll members in the opposite rotational direction from the one of said pair of roll members.

102. An aircraft maintenance tool for maintaining an aircraft, the maintenance tool comprising:
a tool housing;
a nozzle connected to said tool housing; and
nozzle moving means connected to said tool housing for pivotally moving said nozzle in a first plane and for pivotally moving said nozzle in a second different plane.

103. An aircraft maintenance tool as defined in Claim 102, further comprising a deicing fluid supply line connected to said nozzle and a deicing fluid supply connected to said deicing fluid supply line for supplying deicing fluid to said deicing nozzle.

104. An aircraft maintenance tool as defined in Claim 102, wherein said nozzle moving means includes a first pneumatic cylinder connected to said tool housing for operatively moving said nozzle in the first plane and a second pneumatic cylinder connected to said tool housing for operatively moving said nozzle in the second different plane.

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REMARKS

It is believed that all of the claims are patentable over the prior art. Accordingly, after the Examiner completes a thorough examination and finds the claims patentable, a Notice of Allowance is respectfully requested in due course. Should the Examiner determine any minor informalities that need to be addressed, he is encouraged to contact the undersigned attorney at the telephone number below.

Respectfully submitted,



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